



# Transmission Planning: An Integrated Approach

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Los Angeles Department of  
Water and Power

April 5, 2004



# Planning Philosophy

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- Integrated Approach
  - Native-Load Driven
  - Resource/Transmission Matching
  - Gives Certainty to Utility Budgets



# The Integrated Approach

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- Generation, Transmission and Distribution solutions are considered together and not in a vacuum
- Allows for consideration of reliability, economic, or other issues



# Problem Areas

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- Local
  - Flow Issues at Sylmar
- Regional
  - East-of-the-River Transmission



# Sylmar Solution

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- Expand the transfer capability by adding a 3<sup>rd</sup> parallel transformer
- Double the tie-point transfer capacity from 800 MW to 1600 MW



# Regional Planning and Collaboration for EOR

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- WECC Regional Planning
- Southwest Transmission Expansion Plan
- Western Arizona Transmission System



# The Consequences of Inaction

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- Increased Flow Mitigation
- Increased Reliance on an Aging Infrastructure



# How Do These Short-Term Solutions Fit

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- Gives a greater ability to site resources
- Promotes market confidence
- Excess transmission can be made available for OASIS customers





# Conclusion

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- Transmission expansion and new generation should be integrated
- Regional planning and collaboration should begin with local requirements in each region